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NOTICE OF ALLOWANCE AND FEE(S) DUE

45211

7590

09/17/2008

Robert A. Voigt, Jr. WINSTEAD SECHREST & MINICK PC PO BOX 50784 DALLAS, TX 75201 EXAMINER

SCHMIDT, KARI L

ART UNIT PAPER NUMBER

2139

DATE MAILED: 09/17/2008

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/756,904	01/14/2004	Marc A. Boulanger	RPS920030037US1	3081

TITLE OF INVENTION: INTRUSION DETECTION USING A NETWORK PROCESSOR AND A PARALLEL PATTERN DETECTION ENGINE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/17/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed otl	ng the Patent, advance o herwise in Block 1, by (orders and notification of a) specifying a new corn	maintenance fees espondence addres	will be s; and/o	mailed to the current r (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
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PO BOX 50784	ECHREST & MINIC	I Si ac tra	nereby certify that ates Postal Service dressed to the Ma	this Fee(with sub iil Stop	e of Mailing or Transr s) Transmittal is being fficient postage for firs ISSUE FEE address (1) 273-2885, on the da	deposited with the United t class mail in an envelope above, or being facsimile	
DALLAS, TX 7	5201		Γ				(Depositor's name)
							(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO)R	ATTC	PRNEY DOCKET NO.	CONFIRMATION NO.
10/756,904 TITLE OF INVENTION	01/14/2004 i: INTRUSION DETEC	ΓΙΟΝ USING A NETWC	Marc A. Boulanger ORK PROCESSOR AND	A PARALLEL PA		PS920030037US1 DETECTION ENGIN	3081 E
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SCHMID	Γ, KARI L	2139	713-201000	_			
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Com	" Indication form ned. Use of a Customer A TO BE PRINTED ON	data will appear on the	gle firm (having as r agent) and the na torneys or agents. I be printed. ype) patent. If an assign assignment.	a members of uf no nan	per a 2p to a 3dentified below, the do	ocument has been filed for
Please check the appropr	riate assignee category or	r categories (will not be p	rinted on the patent):	Individual 🔲	Corporat	ion or other private gro	up entity Government
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5. Change in Entity Sta	tus (from status indicate as SMALL ENTITY state		☐ b. Applicant is no lo		ATT DAD	TITY status Coo 27 CE	ED 1.27(~)(2)
NOTE: The Issue Fee an	d Publication Fee (if rea		ed from anyone other than	-			e assignee or other party in
Authorized Signature				Date			
Typed or printed name							
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Robert A. Voigt, Jr.			SCHMID'	Γ, KARI L	
WINSTEAD SECHREST & MINICK PC			ART UNIT	PAPER NUMBER	
PO BOX 50784 DALLAS, TX 752	01		2139 DATE MAILED: 09/17/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 828 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 828 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)					
	10/756,904	BOULANGER ET AL.					
Notice of Allowability	Examiner	Art Unit					
	KARI L. SCHMIDT	2139					
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 16 June 2008.	(OR REMAINS) CLOSED in or other appropriate common GHTS. This application is so	n this application. If not included unication will be mailed in due course. THIS	ve				
2. ☑ The allowed claim(s) is/are <u>4 and 5</u> .							
3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Application	on No					
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit	ENT of this application.						
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2 to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No 7. ☐ Examiner's —	formal Patent Application ummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance					

NOTICE OF ALLOWANCE

Response to Arguments

1. Applicant's arguments have been fully considered and are persuasive.

Therefore, the rejection has been withdrawn.

Allowable Subject Matter

- 2. Claims 4-5 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

As per claim 4, it was not found to be taught in the prior art of coupling selected data from the network data to a parallel pattern detection engine (PPDE), for comparing the selected data in parallel to M sequences of pattern data stored in the PPDE and generating a match output signal when at least one of the M sequences of pattern data compares to a portion of the selected data; storing N intrusion signatures in the M PUs sequences of pattern data with corresponding identification (ID) data used to identify which of the N intrusion signatures is detected; storing action code indicating action to take in response to detecting a particular one of the N intrusion signatures; comparing the selected data to the store N intrusion signatures and generating, at network data speed, a pattern compare signal and particular ID data when a particular one of the N intrusion signatures is detected; and executing the action code corresponding to the particular one of the N intrusion signatures detected; M processing unit (PUs), each of the M PUs having compare circuitry for comparing each of the sequence of input data to

pattern data stored in each of the M PUs and generating a compare output, wherein an address pointer selecting the pattern data in each of the M Pus is modified in response to a logic state of the compare output and an operation code stored with the pattern data; and ID selection circuitry for selecting a match ID from ID data identifying the M PUs in response to a pattern match signal and match mode data, wherein the match ID and match data corresponding to the match ID are saved in a temporary register as the output data.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KARI L. SCHMIDT whose telephone number is (571)270-1385. The examiner can normally be reached on Monday - Friday: 7:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kristine Kincaid can be reached on 571-272-4063. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2139

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kari L Schmidt/ Examiner, Art Unit 2139

/Kristine Kincaid/ Supervisory Patent Examiner, Art Unit 2139